LAND APPLICATION AG A. This land application agre "Landowner", and Town of C until it is terminated in writing the event of a sale of one or identified in this agreement of to receive biosolids or indust	ement is made on <u>5\15\</u> hristiansburg, referred to her by either party or, with respondere parcels, until ownership hanges, those parcels for wh	e as the "Permittee". This ag ect to those parcels that are r o of all parcels changes. If ov ich ownership has changed v	etained by the Landowner in
Landowner: The Landowner is the owner agricultural, silvicultural or re Exhibit A.	of record of the real property clamation sites identified belo	located in <u>Pulaski County,</u> V ow in Table 1 and identified o	rginia, which includes the n the tax map(s) attached a
	Table 1.: Parcels authori	zed to receive biosolids	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
027-1-41			
In the event that the Landow within 38 months of the lates 1. Notify the purchaser later than the date of	ner sells or transfers all or pa date of biosolids application or transferee of the applicabl the property transfer; and of the sale within two weeks to agreements for land applica- tely if conditions change such this agreement becomes inva	, the Landowner shall: e public access and crop man following property transfer. tion on the fields identified he in that the fields are no longer allid or the information herein o	rein. The Landowner will available to the Permittee contained becomes
above and in Exhibit A. The identified above, before, durir regulatory requirements appli	Landowner also grants perm ng or after land application of	ssion for DEQ staff to conduct	ct inspections on the land
Douglas Cullip Landowner – Printed Name, Title P.O. Box 433, Dublin, VA 240 Mailing Address	Signature 084	Cullip	
Permittee: Town of Christiansburg, the Perr VPDES Permit Regulation and ir land application field by a person	amounts not to exceed the rate	s identified in the nutrient manage	gement plan prepared for each
The Permittee agrees to notify the specifically prior to any particular	e Landowner or the Landowner's application to the Landowner's	s designee of the proposed scheland. Notice shall include the sc	edule for land application and ource of residuals to be applied.
☐ I reviewed the documents ass document available to DEQ for re	igning signatory authority to the eview upon request. (Do not chec	person signing for landowner ab k this box if the landowner signs this	ove. I will make a copy of this agreement)

Randy Wingfield, Town Manager Permittee – Authorized Representative

Printed Name

100 E. Main St., Christiansburg, VA 24073

Mailing Address

LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee: Town of Christiansburg County or City: Christiansburg, VA

Landowner: Douglas Cullip

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

 Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access

- Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids,
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
- Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- a. Meat producing livestock shall not be grazed for 30 days.
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- c. Other animals shall be restricted from grazing for 30 days;
- Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial
 residuals applications such that the total crop needs for nutrients are not exceeded as identified in the
 nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of
 Virginia;
- Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Doubes Collins
Landowner's Signature

Data

Rev 9/14/2012 Page 2 of 2

A. This land application agr "Landowner", and <u>Town of</u> until it is terminated in writir the event of a sale of one o	ig by either party or, with res r more parcels, until owners changes, those parcels for	between Emogen ere as the "Permittee". This a spect to those parcels that are hip of all parcels changes. If which ownership has change	retained by the Landowner in
Landowner: The Landowner is the owner agricultural, silvicultural or r Exhibit A.	er of record of the real prope eclamation sites identified b	rty located in <u>Pulaski County,</u> elow in Table 1 and identified	Virginia, which includes the on the tax map(s) attached as
	Table 1.: Parcels author	orized to receive biosolids	
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
027-1-41			
Additional parcels containing Land	Application Sites are identified on	Supplement A (check if applicable)	
Check one: ☐ The	 Landowner is the sole own Landowner is one of multir 	er of the properties identified ble owners of the properties id	herein.
1. Notify the purchase later than the date of the Landowner has no other notify the Permittee immedia	st date of biosolids application or transferee of the application of the property transfer; and of the sale within two week ar agreements for land applicately if conditions change su	part of the property to which bon, the Landowner shall: ble public access and crop makes following property transfer. Cation on the fields identified half the fields are no longer valid or the information herein	anagement restrictions no nerein. The Landowner will er available to the Permittee
above and in Exhibit A. The	Landowner also grants per ing or after land application	mission for DEQ staff to cond	the agricultural sites identified uct inspections on the land f determining compliance with
	0.	11.	
Emogene Cullip Landowner – Printed Name, Title P.O. Box 433, Dublin, VA 24 Mailing Address	Signature 6084	lip	
VPDES Permit Regulation and	in amounts not to exceed the ra	ds on the Landowner's land in the ates identified in the nutrient man 10.1-104.2 of the Code of Virgin	agement plan prepared for each
The Permittee agrees to notify specifically prior to any particular	he Landowner or the Landown ar application to the Landowner	er's designee of the proposed so 's land. Notice shall include the	hedule for land application and source of residuals to be applied.
☐ I reviewed the documents as document available to DEQ for	signing signatory authority to the review upon request. (Do not che	e person signing for landowner a leck this box if the landowner signs to	above. I will make a copy of this his agreement)
Randy Wingfield, Town M Permittee – Authorized Represent			Christiansburg, VA 24073

Printed Name

LAND APPLICATION AGREEMENT - BIOSOLIDS

Permittee: Town of Christiansburg County or City: Christiansburg, VA

Landowner: Emogene Cullip

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

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- c. Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia:
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

5/12 /2019 Date

Rev 9/14/2012

LAND APPLICATION AGREEMENT - BIOSOLIDS

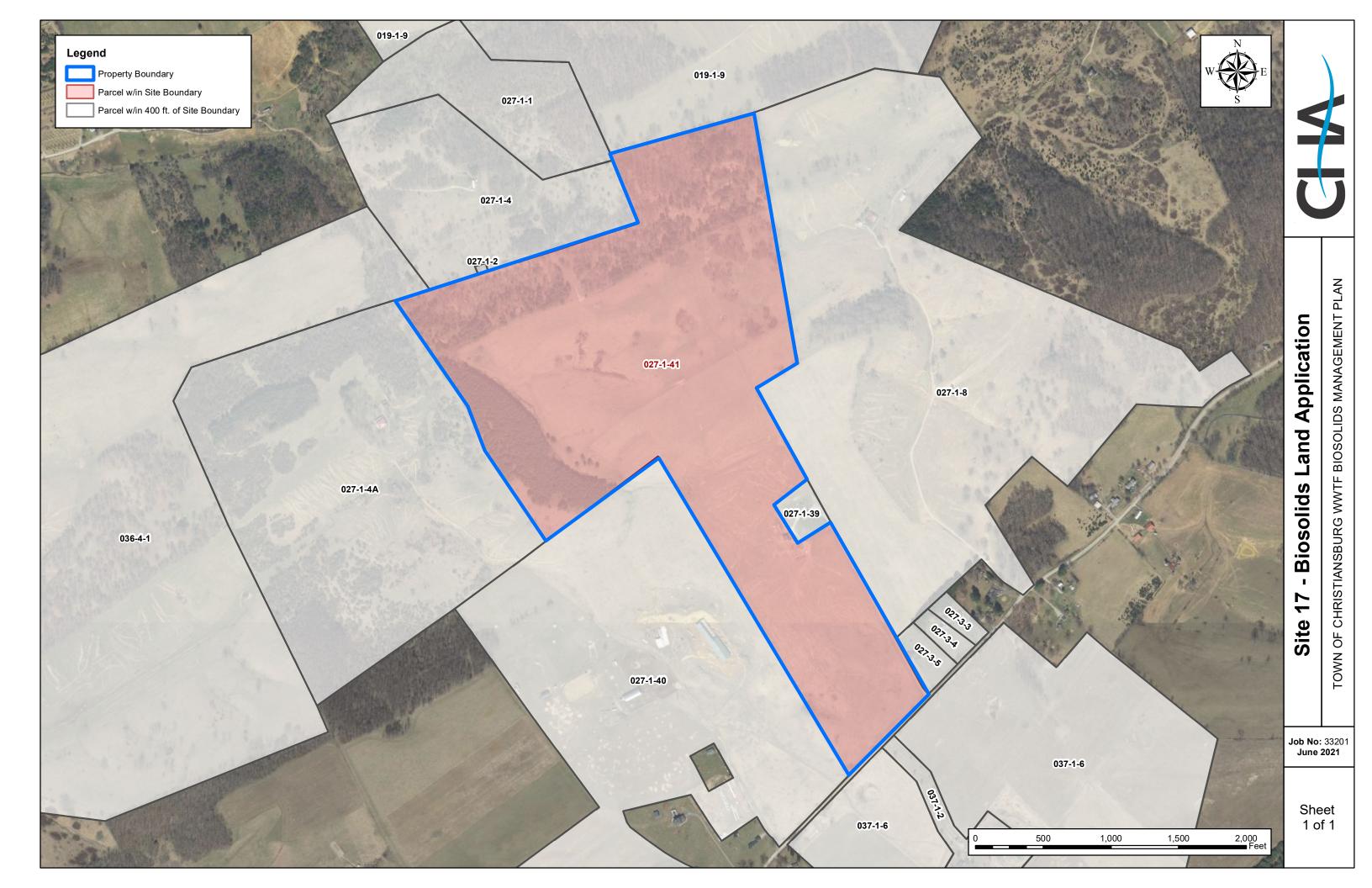
Landowner Coordination Form

Permittee: Town of Christiansburg

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and each of the legal landowners of those tax parcels. A *Land Application Agreement – Biosolids* form, pages 1 and 2 with original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

County or City: Christiansburg	, VA	- -	
Please Print	(Signatures not required on this page	age)	
Tax Parcel ID(s)	<u>Landowner(s)</u>		
027-1-41	Douglas Cullip and Emogene Cullip		

Rev 9/14/2012 Page <u>1</u> of <u>1</u>



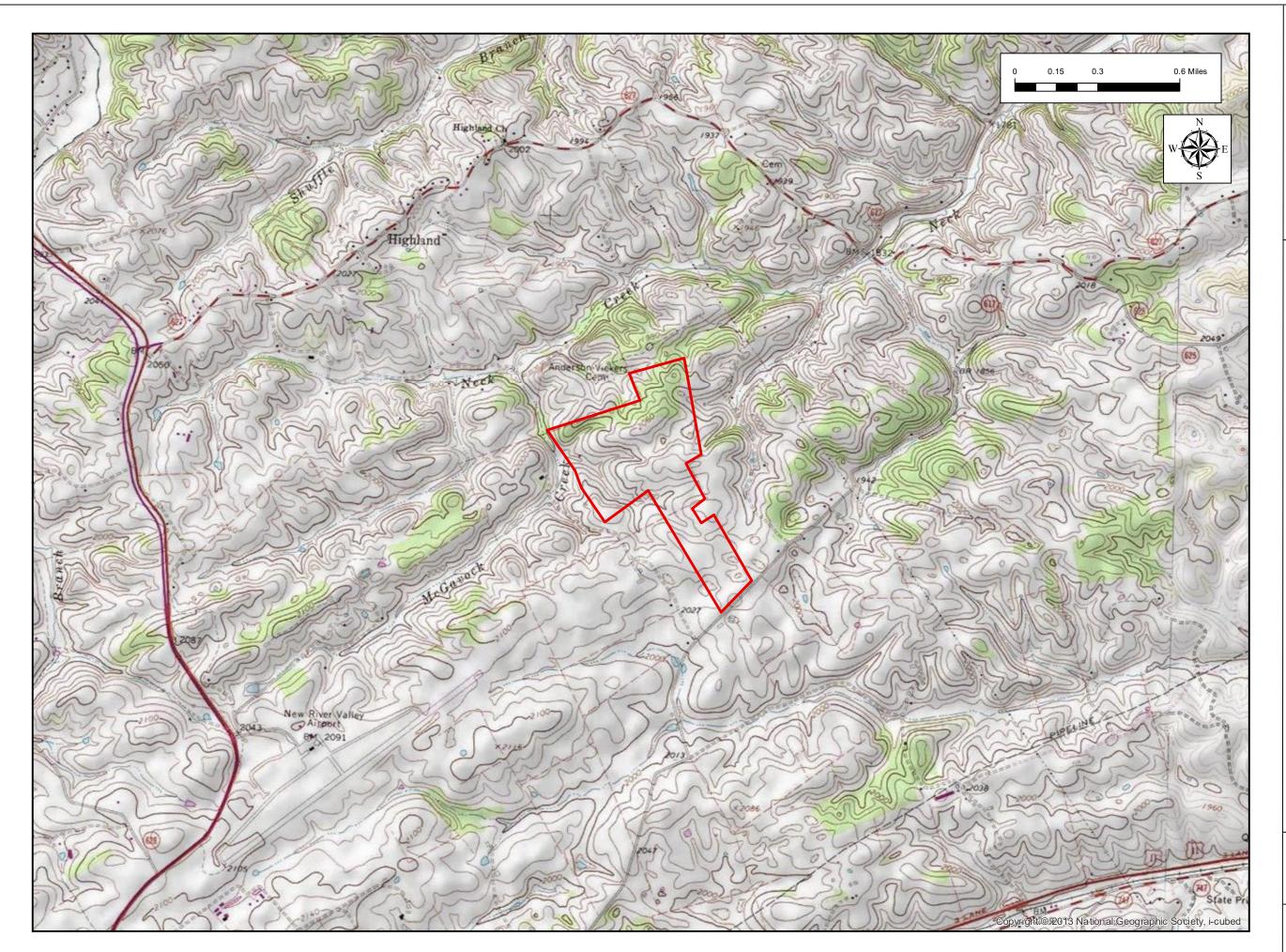
11 Research Center Drive, Suite

CHRISTIANSBURG WASTEWATER TREATMENT FACILITY BIOSOLIDS MANAGEMENT PLAN ОЕ TOWN

GENERAL LOCATIONS MAP

Job No: 33201 JUNE 2019

Sheet 1 of 1

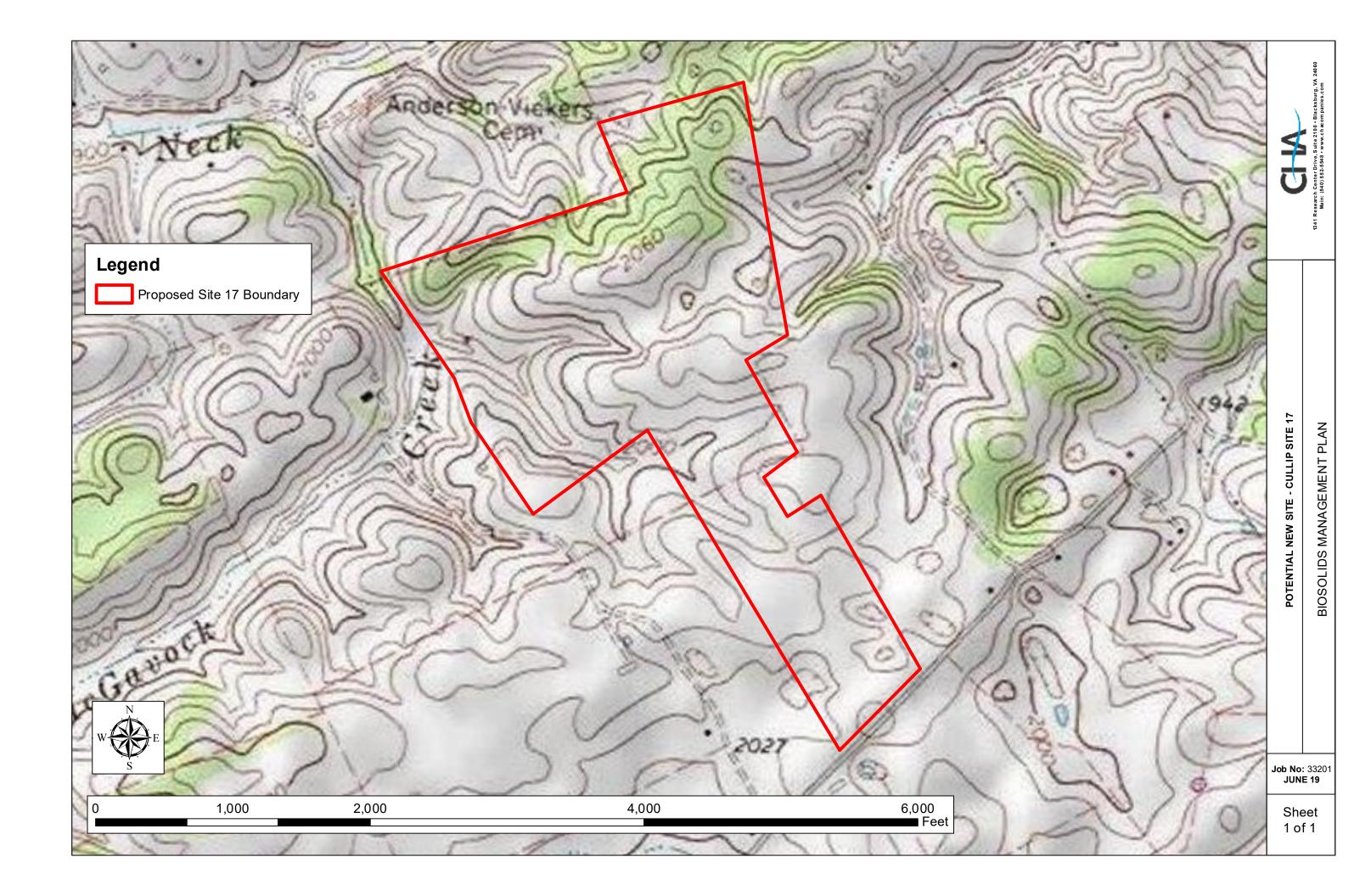


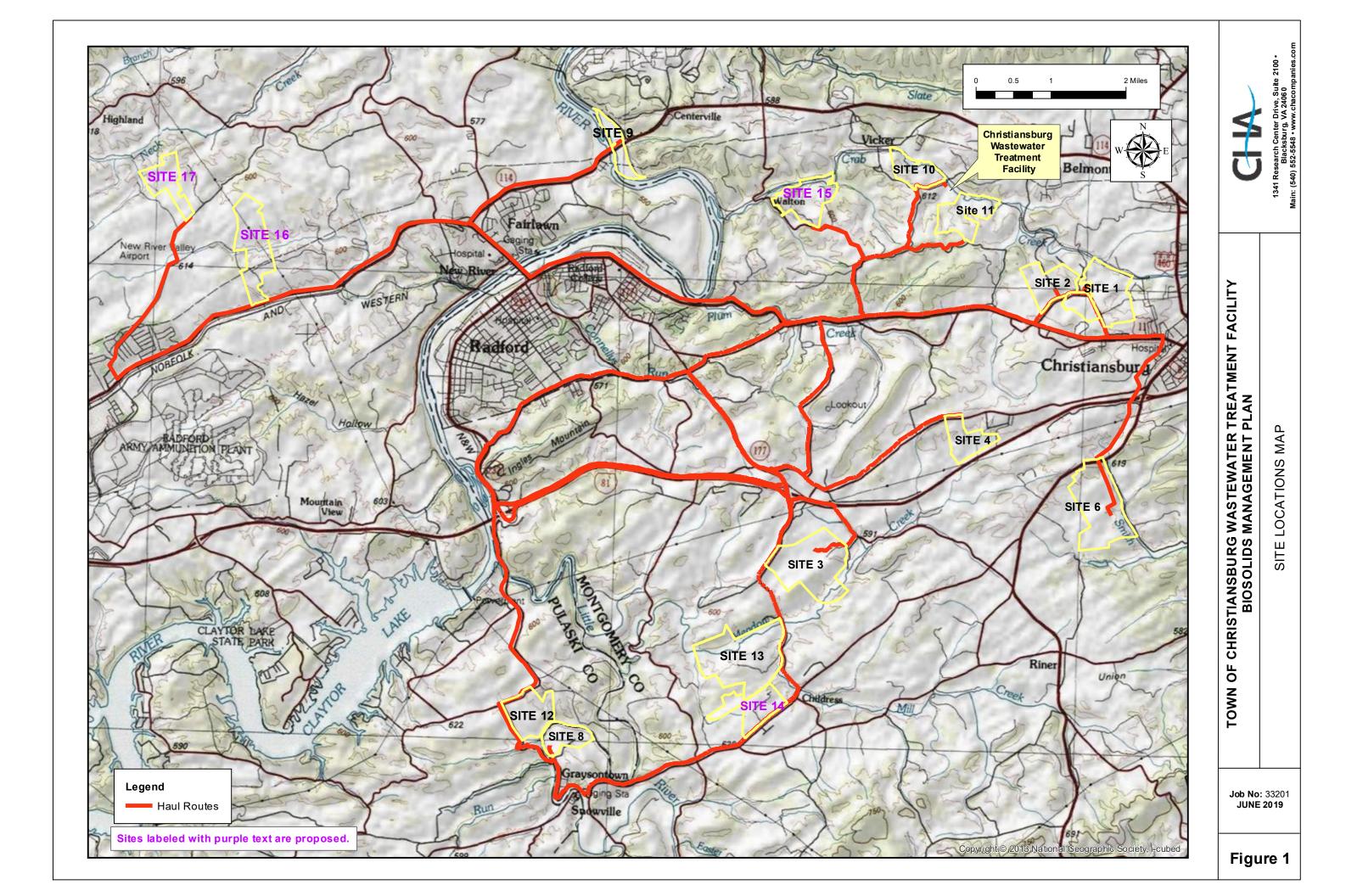
341 Research Center Drive, Suite

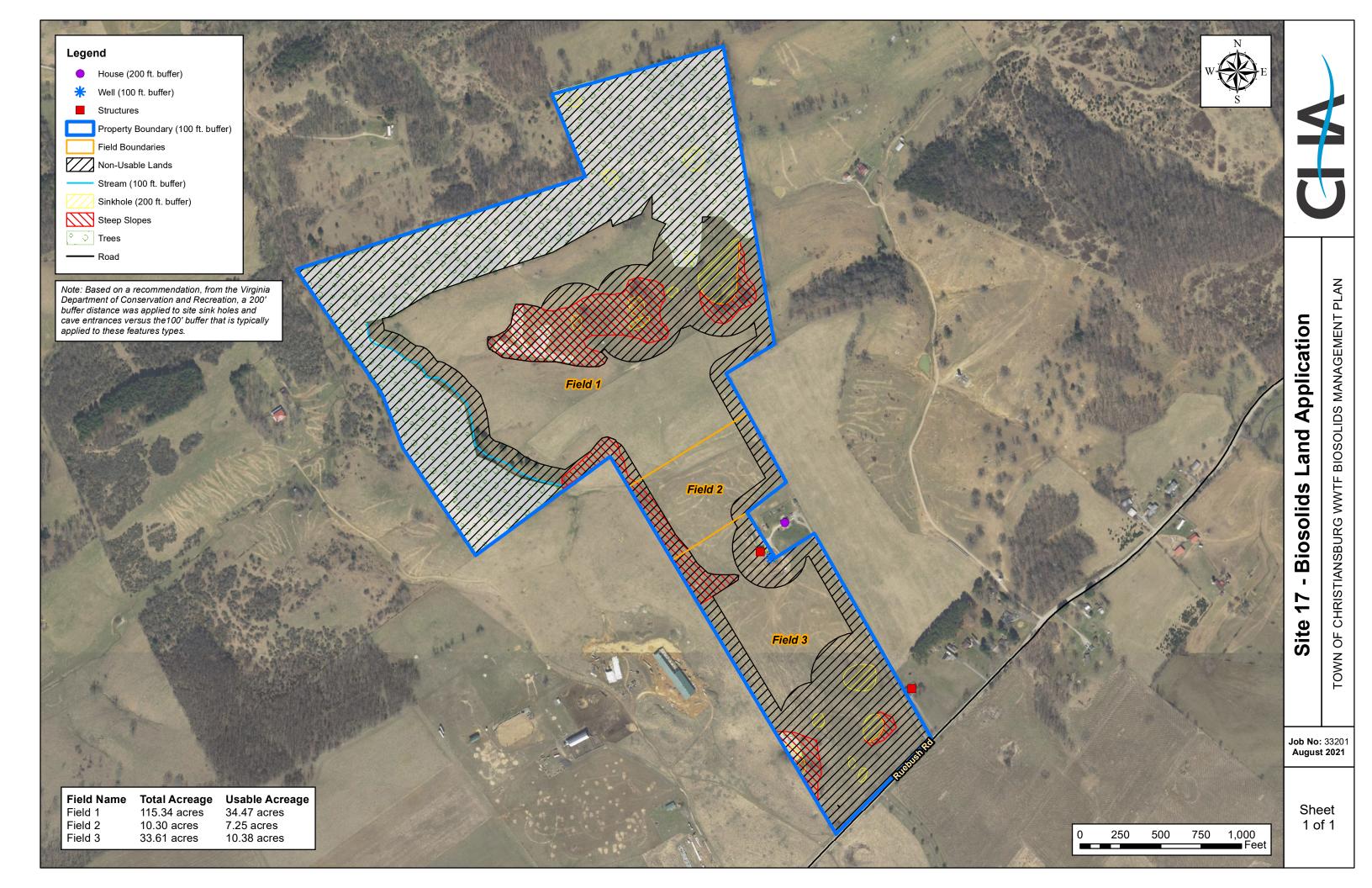
CHRISTIANSBURG WASTEWATER TREATMENT FACILITY BIOSOLIDS MANAGEMENT PLAN GENERAL LOCATION MAP - SITE 17 **TOWN OF**

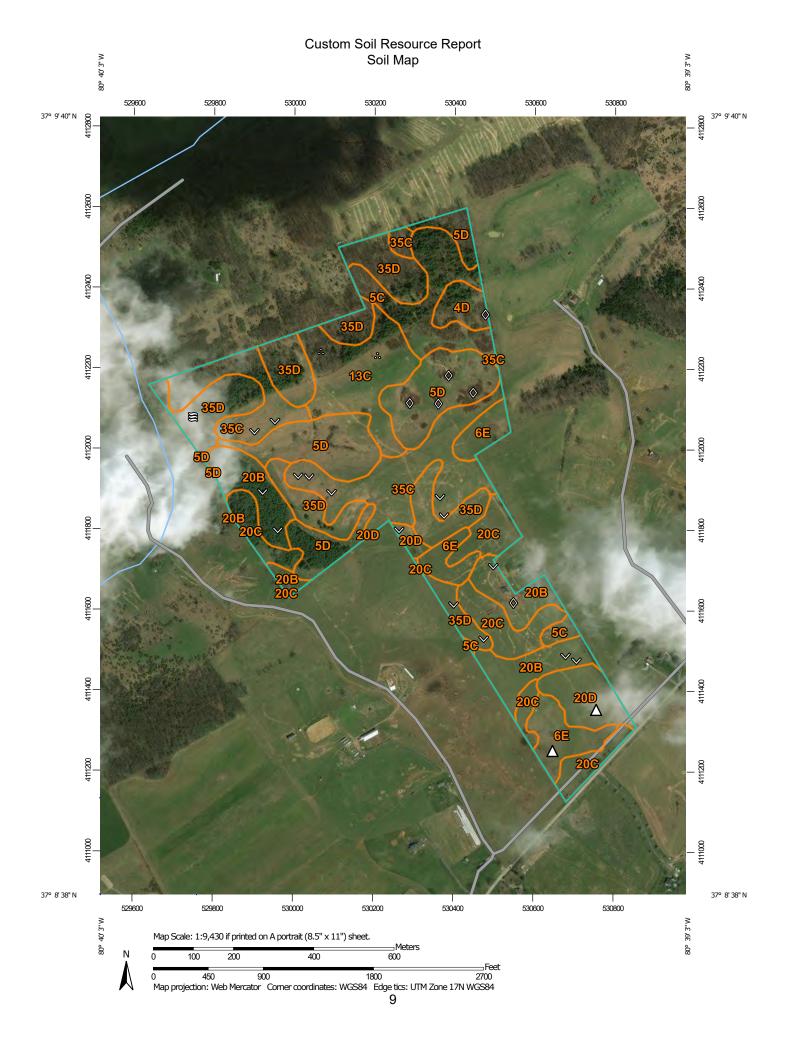
Job No: 33201 JUNE 2019

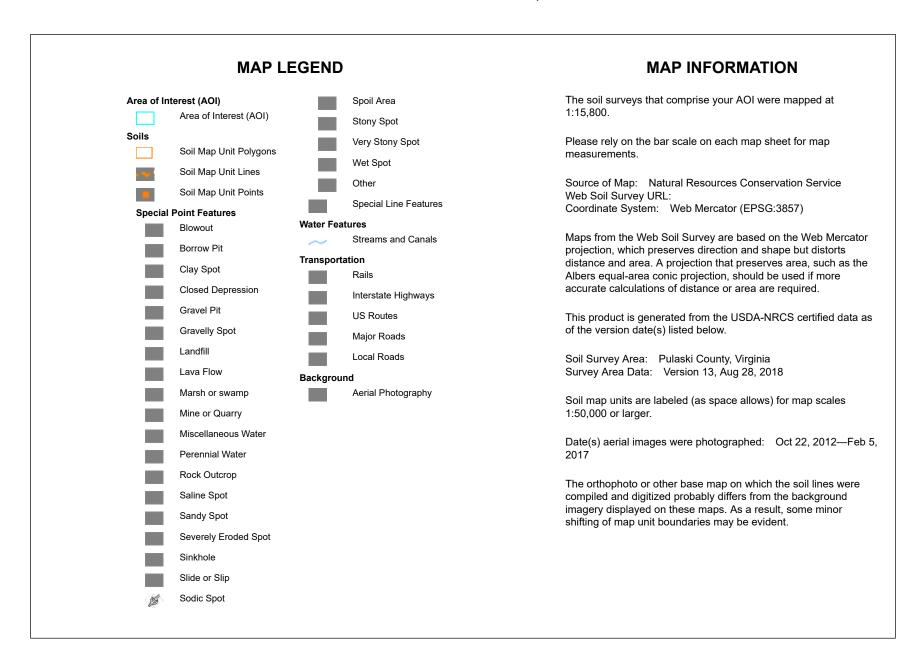
Sheet 1 of 1











Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
4D	Carbo silty clay loam, 15 to 35 percent slopes	3.1	2.0%
5C	Carbo silty clay loam, very rocky, 7 to 15 percent slopes	12.3	7.7%
5D	Carbo silty clay loam, very rocky, 15 to 30 percent slopes	25.8	16.2%
6E	Carbo-Rock outcrop complex, 10 to 45 percent slopes	10.8	6.8%
13C	Groseclose and Poplimento silt loams, 7 to 15 percent slopes	13.5	8.5%
20B	Lowell silt loam, 2 to 7 percent slopes	17.2	10.8%
20C	Lowell silt loam, 7 to 15 percent slopes	16.2	10.2%
20D	Lowell silt loam, 15 to 30 percent slopes	7.0	4.4%
35C	Wurno-Newbern-Faywood silt loams, 7 to 15 percent slopes	24.8	15.6%
35D	Wurno-Newbern-Faywood silt loams, 15 to 30 percent slopes	28.5	17.9%
Totals for Area of Interest		159.2	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a